



WORLD RESOURCES COMPANY

Form FM-M01

RECYCLABLE MATERIAL PROFILE

EXHIBIT A

A. Generator Information:

Company I.D. Number: W2149A3

1. Generator: Alaskan Copper Works
2. Address: P. O. Box 3546
Seattle, WA 98124-3546
3. Contact: Mr. Gerald Thompson
Title: Environmental Assistant
4. Material EPA Waste Code: D007
5. Generator's EPA I.D. Number: WAD980738546
6. Generator's State I.D. Number:

B. Recyclable Material Characteristics:

1. Color(s): <u>Brown</u>		6. Texture similar to: <input checked="" type="checkbox"/> Wet Clay <input type="checkbox"/> Dry Clay <input type="checkbox"/> Sand <input type="checkbox"/> Powder <input type="checkbox"/> Other		7. Appearance <input checked="" type="checkbox"/> Homogeneous <input type="checkbox"/> Bilayered <input type="checkbox"/> Multilayered		9. Free Liquids (EPA SW 846, Method 9095) <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
2. Odor: <input checked="" type="checkbox"/> None <input type="checkbox"/> Mild <input type="checkbox"/> Strong Description of Odor:		8. Organic Vapors <input checked="" type="checkbox"/> Not Present (<1 ppm) <input type="checkbox"/> Present If present, identify compounds and amount (ppm wet): <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		10. Debris Present <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		11. Reactivity <input checked="" type="checkbox"/> Not Reactive <input type="checkbox"/> Reactive	
3. Moisture: <input checked="" type="checkbox"/> Wet <input type="checkbox"/> Damp <input type="checkbox"/> Dry Percent Solids: <u>89.10</u>		12. Radionuclides (ASTM D5928-96) <input checked="" type="checkbox"/> Not Detected <input type="checkbox"/> Detected		13. Cyanide Gas HCN: <input checked="" type="checkbox"/> Not Detected <input type="checkbox"/> Detected _____ ppm			
4. pH (EPA SW 846, Method 9040/9045) pH: <u>7.57</u>		5. Ignitability (40 CFR §261.21) <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail					

C. Analytical Data:

(Content on a dry weight basis in ppm or %)

Constituent *		Content	Constituent *		Content
1. Aluminum ¹	Al	33772 ppm	19. Magnesium ²	Mg	422 ppm
2. Antimony ¹	Sb	19 ppm	20. Manganese ¹	Mn	7220 ppm
3. Arsenic ¹	As	< 30.0 ppm	21. Mercury ³	Hg	< 18.00 ppm
4. Barium ¹	Ba	14 ppm	22. Nickel ¹	Ni	108068 ppm
5. Beryllium ¹	Be	< 0.20 ppm	23. Selenium ¹	Se	< 25.0 ppm
6. Bismuth ¹	Bi	64 ppm	24. Silver ¹	Ag	< 1 ppm
7. Cadmium ¹	Cd	2.0 ppm	25. Thallium ⁴	Tl	< 14.0 ppm
8. Calcium ¹	Ca	159 ppm	26. Tin ¹	Sn	158 ppm
9. Chloride ⁷	Cl ⁻	0.11 %	27. Zinc ¹	Zn	4700 ppm
10. Chromium, Hexavalent ⁵	Cr ⁺⁶	0 ppm			
11. Chromium, Total ¹	Cr	143670 ppm			
12. Cobalt ¹	Co	1505 ppm			
13. Copper ¹	Cu	105414 ppm			
14. Cyanide, Amenable ⁶	CN ⁻	0 ppm			
15. Cyanide, Total ⁶	CN ⁻	18.0 ppm			
16. Fluoride ⁷	F ⁻	0.01 %			
17. Iron ¹	Fe	696317 ppm			
18. Lead ¹	Pb	80 ppm			

* Analytical Procedure References:

- 1 EPA Method SW846 3050 / 6010 (Digestion / Analysis)
- 2 EPA Method SW846 3050 / 7450 or 6010 (Digestion / Analysis)
- 3 EPA Method SW846 3050 / Hydride generation (Digestion / Analysis)
- 4 EPA Method SW846 3050 / 7840 or 6010 (Digestion / Analysis)
- 5 EPA Method SW846 1311 or 3060 / 7196 (Extraction / Analysis)
- 6 EPA Method SW846 9010 (Distillation / Analysis)
- 7 HNO₃ or H₂O₂ / EPA Method SW846 9056 (Digestion / Analysis)

D. Certification:

I hereby certify that all information submitted in this profile is complete and accurate to the best of my knowledge and belief.

Signed: [Signature]Date: 07/22/2002Title: Laboratory Manager



July 22, 2002

Mr. Gerald Thompson
Environmental Assistant
Alaskan Copper Works
P. O. Box 3546
Seattle, WA 98124-3546

Dear Mr. Thompson:

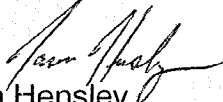
Enclosed for your records is a completed "RECYCLABLE MATERIAL PROFILE" (profile sheet) for the material generated at your facility. In accordance with the recycling Agreement with your company, World Resources Company (WRC) provides a completed profile sheet each contract year.

The concentration of metals reported on the profile sheet is the total concentration of each metal on a dry basis. The recyclable material is prepared for analysis by first grid-sampling and then drying the selected sample in the laboratory oven at 103°-105° centigrade in order to obtain a homogeneous dry sample (Standard Methods For The Examination of Water and Wastewater, 15th Edition, published by the American Public Health Association 1980, Method 209A "Total Residue at 103°-105° centigrade"). Therefore, these results are generally higher than the concentrations of your material as it leaves your facility. You should multiply these dry concentrations by the decimal form of your percent solids (i.e. 50.0% = 0.50) to obtain the concentration of your material as it leaves your plant.

WRC appreciates your business and looks forward to a long and mutually beneficial recycling relationship. Please feel free to call me with any questions you may have regarding the enclosed profile sheet. Thank you for your interest in recycling.

Sincerely,

World Resources Company


Jason Hensley
Laboratory Manager

